ABSTRACT OF THE DISCLOSURE

A position detecting system includes a light source device for providing coherent light, an incoherence-transforming device for transforming the coherent light from the light source device, into incoherent light, an optical system for dividing the incoherent light from the incoherence-transforming device, wherein one of divided light beams is directed to illuminat $\stackrel{h}{e}$ a target upon a surface of an object while another $\sqrt{}$ of divided light beams is directed to be reflected by a \surface which is optically conjugate with the surface of the object, and wherein light from the target and light reflected by the conjugate surface are re-combined, an image pickup device for producing an imagewise signal corresponding to the target on the basis of the light re-combined by the optical system, where n positional information related to a position of the target with respect to a direction along the surface of the object can be produced on the basis of \mbox{t} the imagewise signal, and an image contrast adjusting device for adjusting image contrast of an image of a portion close to the target, as picked up by the image pickup device.

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